

PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new Intersection Control Beacon at the intersection of MD 26 and Old Annapolis Road/Water Street in Frederick County, Maryland. MD 26 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a flashing mode. The MD 26 movements will operate with a flashing yellow. The Old Annapolis Road/Water Street movements will operate with a flashing red.

A 2 circuit flasher, intersection monitor with battery backup, photo cell housed in pole mounted cabinet, and overhead phone drop are to be installed at this location.

EQUIPMENT LIST

A. Equipment to be furnished by MD-S.H.A. installed by the Contractor.

Item No.	Quantity	Units	Description
9068	1	EA	2 circuit flasher.
9076	1	EA	Cabinet "G" type pole mounted.
9092	1	EA	Intersection monitor II with battery backup.
---	1	EA	21 ft. mast arm pole with 52 ft. mast arm w/anchor bolts.

B. Equipment to be furnished and/or installed by the Contractor.
All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Item No.	Quantity	Units	Description
1001	1	LS	Maintenance of traffic per assignment.
2001	1	CY	Test pit excavation.
5004	25	LF	24 in. white HAPPTM.
8001	2.65	CY	Concrete for signal foundation.
8019	1	EA	Install cabinet and 2 circuit flasher - pole mounted.
8022	20	LF	1 in. electrical conduit - galvanized steel sleeve riser.
8027	20	LF	3 in. [Schedule 80] PVC electrical conduit - trenched.
8033	1	EA	Electrical handhole.
8034	1	EA	Ground rod (3/4 in. x 10 ft. length).
8043	30	LF	Electrical cable - 3 conductor (No. 14 AWG).
8044	120	LF	Electrical cable - 5 conductor (No. 14 AWG).
8045	250	LF	Electrical cable - 7 conductor (No. 14 AWG).
8048	25	LF	Stranded bare copper ground wire (No. 6 AWG).
8049	75	LF	Electrical cable - 1 conductor (No. 4 AWG) THHN/THWN.
8069	1	EA	Photo cell
8074	1	EA	Install steel pole and single mast arm (any size).
8084	8	EA	12 in. black faced vehicular traffic signal head.

CONTACT LIST

The contact persons for District #7 are as follows:

Mr. Robert Fisher
District Engineer
301-624-8101

Mr. John Concannon
Assistant District Engineer - Traffic
301-624-8101

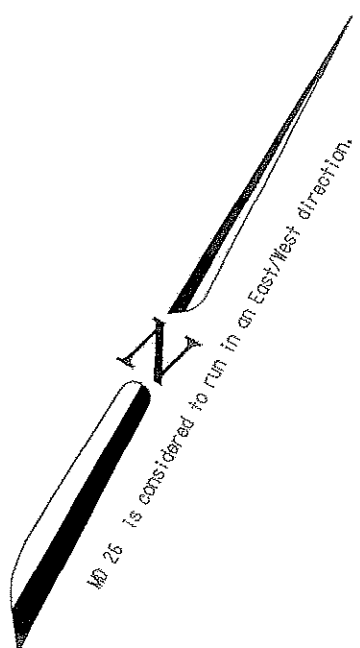
Mr. John Wright
Assistant District Engineer - Utility
301-624-8101

Mr. Leon Kerns
Assistant District Engineer - Maintenance
301-624-8101

Mr. Richard L. Daff
Chief, Traffic Operations Division
410-787-7630

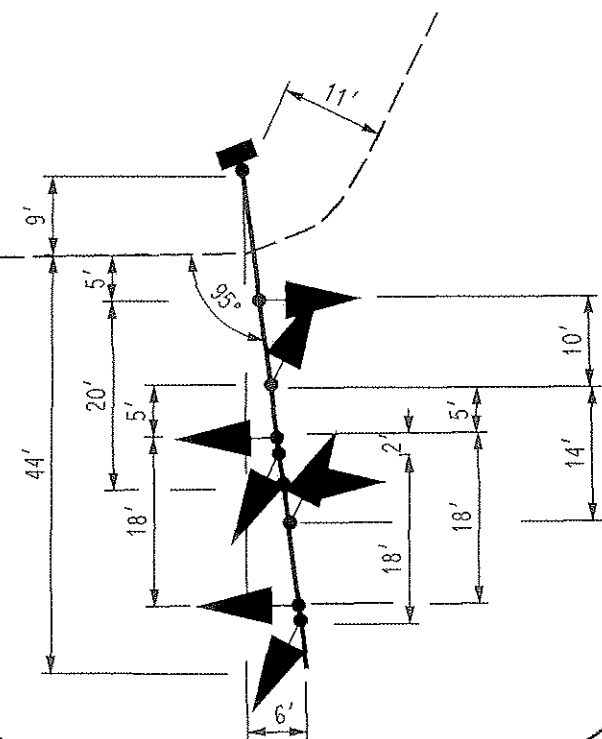
The Power Representative is:
Allegheney Power Company
Mr. Brian Marville
421 E. Patrick St.
Frederick, Maryland 21701
301-694-4474

EXISTING SIGNS

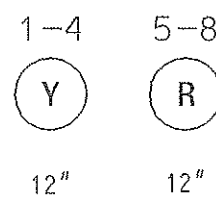


Mast Arm Detail

SCALE: 1" = 20'



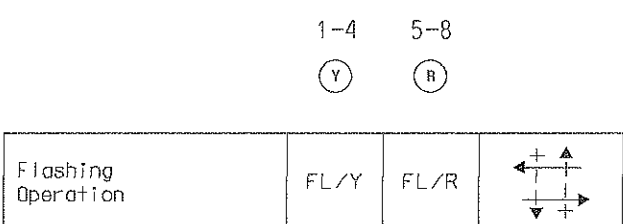
PROPOSED SIGNALS



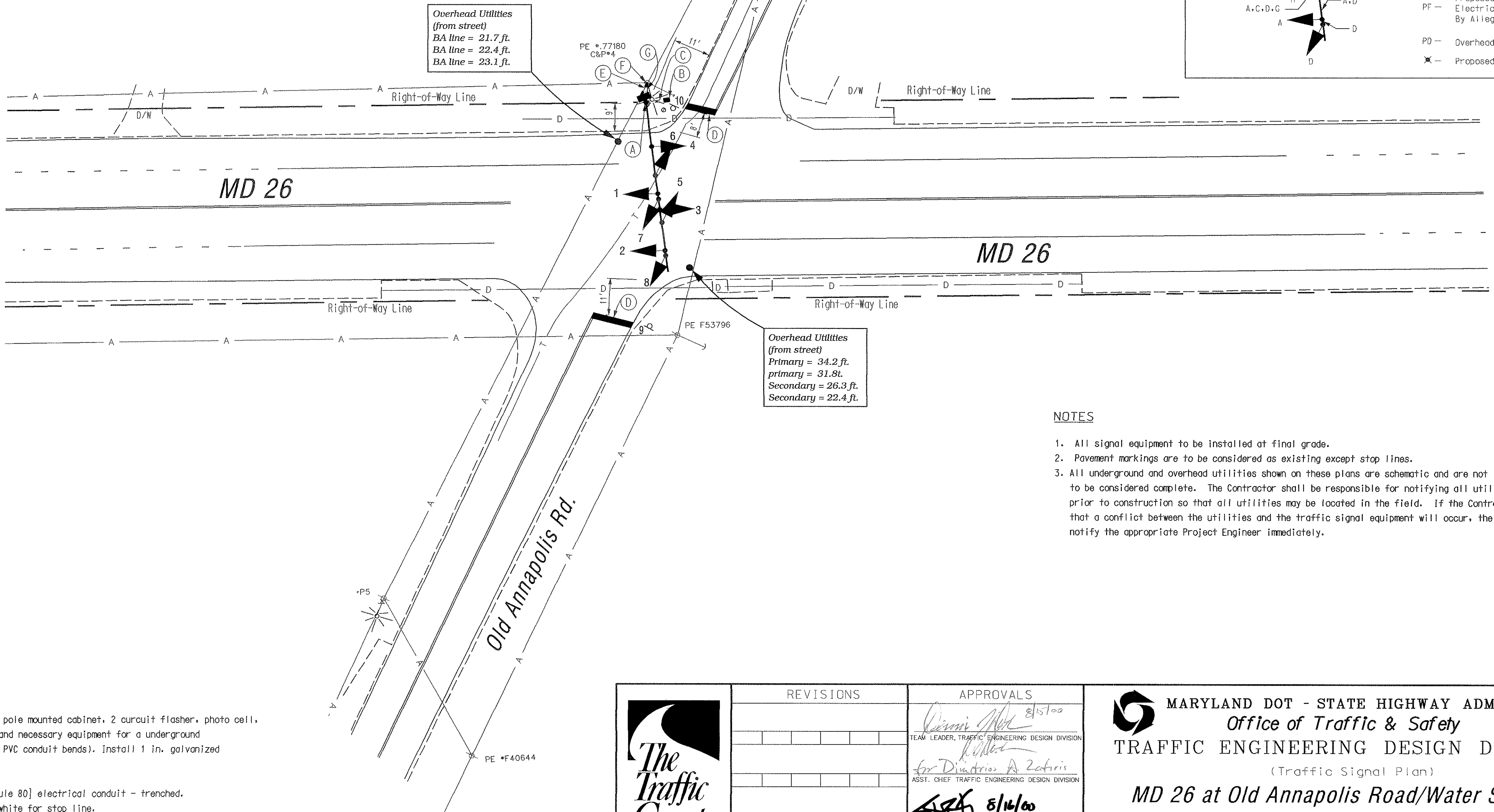
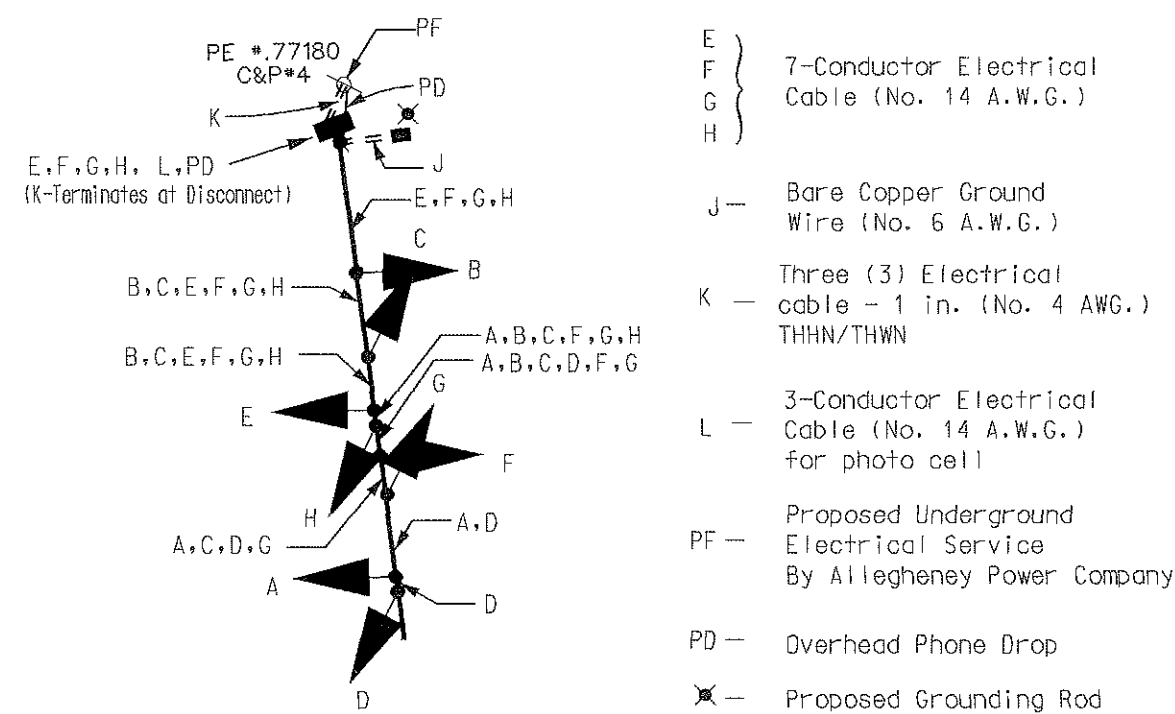
PROPOSED NEMA PHASING



Phase Chart



Wiring Diagram



NOTES

- All signal equipment to be installed at final grade.
- Pavement markings are to be considered as existing except stop lines.
- All underground and overhead utilities shown on these plans are schematic and are not to be considered complete. The Contractor shall be responsible for notifying all utility companies prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal equipment will occur, the Contractor shall notify the appropriate Project Engineer immediately.

GEOMETRIC LEGEND

EXISTING GEOMETRICS
PROPOSED GEOMETRICS

UTILITY LEGEND

G - GAS MAIN
W - WATER MAIN
S - SEWER MAIN
E - ELECTRIC CABLES
D - STORM DRAIN
A - AERIAL CABLES
T - TELEPHONE CABLES

CONSTRUCTION DETAILS

- Install 21 ft. steel mast arm pole with pole mounted cabinet, 2 circuit flasher, photo cell, 52 ft. mast arm, vehicle signal heads, and necessary equipment for a underground MSHA Type P-5 service (Note: two 3 in. PVC conduit bends). Install 1 in. galvanized steel riser for overhead phone drop.
- Install handhole.
- Install 3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
- Install 24 in. wide pavement marking - white for stop line.
- Install 3 in. polyvinyl chloride [Schedule 80] - trenched for electrical service.
- Proposed underground electrical service by Allegheney Power Company.
- Proposed overhead phone drop.



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REVISIONS

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
(Traffic Signal Plan)
MD 26 at Old Annapolis Road/Water Street

DRAWN BY: Frank Hoeckel
CHECKED BY: BTA
SCALE: 1" = 20'
DATE: August 9, 2000
S.H.A. NO. N/A
COUNTY: Frederick
LOG MILE: 100.2400537
TS NO. 4023
T.I.M.S. NO. D822
SHEET NO. 1 OF 1